

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,031,343 B1  
APPLICATION NO. : 09/715275  
DATED : April 18, 2006  
INVENTOR(S) : Jerchan Kuo et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 11

Line 13: please change "downstream" to --upstream--

Line 24: please change "packed" to --packet--


Line 61: please change "mutliple" to --multiple--

Column 16

Line 22: please change "comprising and optical line terminal" to  
--comprising: an optical line terminal--

Signed and Sealed this

Eighteenth Day of September, 2007

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*